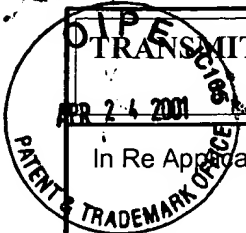


GP 2163\$



TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
6554-76461

In Re Application Of: Charbel, et al.

Serial No.	Filing Date	Examiner	Group Art Unit
09/400,365	September 20, 1999	K. Choi	2163

Title: CIRCULATION MODEL AND APPLICATIONS

#10

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

37 CFR 1.97(b)

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☒ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
 2. a Notice of Allowance under 37 CFR 1.311,
- whichever occurs first.

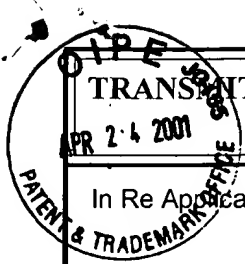
Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☒ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
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Docket No.
6554-76461

In Re Application Of: Charbel, et al.

Serial No.
09/400,365

Filing Date
September 20, 1999

Examiner
K. Choi

Group Art Unit
2163

Title: CIRCULATION MODEL AND APPLICATIONS

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☒ A check in the amount of **\$180.00** is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. **23-0920** as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No.

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I certify that this document and fee is being deposited on **April 20, 2001** with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.


Signature of Person Mailing Correspondence

Jon P. Christensen, Reg. No. 34,137

Typed or Printed Name of Person Mailing Correspondence

*This certificate may only be used if paying by deposit account.


Signature

Jon P. Christensen, Reg. No. 34,137
WELSH & KATZ, LTD.
120 South Riverside Plaza
22nd Floor
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Phone (312) 655-1500

Dated: April 20, 2001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application) Group Art Unit 2163
)
Applicant: Charbel et al) Examiner: K. Choi
)
For: CIRCULATION MODEL AND)
APPLICATIONS)
)
Serial No.: 09/400,365)
)
Filed: September 20, 1999) Attorney Docket
) No. 6554-76461

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98,
applicant hereby submits the following statements consisting of:

- I. A list of references (and attached form PTO-1449);
- II. General remarks.

A copy of each listed document is enclosed herewith.

I. REFERENCES

1. J.R. Womersley, "Oscillatory Flow in Arteries: The Constrained Elastic Tube as a Model of Arterial Flow and Pulse Transmission", *Phys. in Med. & Biol.*, Vol. 2, pp. 178-187 (1958).
2. Ling, et al., "A Nonlinear Analysis of Pulsatile Flow in Arteries", *J. Fluid Mech.*, Vol. 55, part 3, pp. 493-511 and illustration facing page 512 (1972)

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3 Kufahl, et al., "A Circle of Willis Simulation Using Distensible Vessels and Pulsatile Flow", *Journal of Biomechanical Engineering*, Vol. 107, pp. 112-122 (May 1985)

4. Clark, et al., "Natural and Surgically Imposed Anastomoses of the Circle of Willis", *Neurological Research*, Vol. 11, pp 217-230 (December 1989)

II. GENERAL REMARKS

The within Information Disclosure Statement is being filed after the mailing date of the first Office Action regarding the above-identified U.S. Patent Application, but before the occurrence of any of the events listed in 37 C.F.R. § 1.97(c).

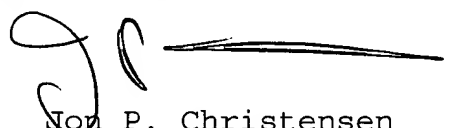
A check is attached in payment of the filing fee associated with this Supplemental Information Disclosure Statement. The Commissioner is hereby authorized to charge any additional fee required, or credit any overpayment, to Deposit Account No. 23-0920. A duplicate copy of this sheet is enclosed.

It is respectfully requested that the above-listed references be given consideration by the Examiner and made of record in the subject patent application.

Respectfully submitted,

WELSH & KATZ, LTD.

By


Jon P. Christensen
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